

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	161	(546/4).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/18 15:02
L2	7375	((428/690,917) or (313/504,506) or (257/40,102,103) or (252/301.16)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/18 15:02
L3	3601	2 and (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L4	706	3 and iridium	US-PGPUB; USPAT	OR	ON	2005/07/18 15:04
L5	70370	(benzene or phenyl) same (pyridine or pyridinyl or pyridyl)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L6	289	4 and 5	US-PGPUB; USPAT	OR	ON	2005/07/18 15:05
L7	256	6 not 1	US-PGPUB; USPAT	OR	ON	2005/07/18 15:07
L8	3360	5 and iridium and (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L9	7300	iridium same (organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L10	113	5 same iridium	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L11	94	9 and 10	US-PGPUB; USPAT	OR	ON	2005/07/18 15:06
L12	47	11 not (1 or 6)	US-PGPUB; USPAT	OR	ON	2005/07/18 15:07

MEY

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	144807	(organometal\$5 or ligand or chelat\$5 or complex\$5 or coordinat\$5).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:10
L2	2686	1 and (iridium or ir).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:10
L3	153177	("c" with "o").clm. or "co".clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L4	1042	2 and 3	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L5	328	2 and carbonyl.clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L6	150	(4 or 5) and (electrode or cathode or anode).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:11
L7	144	(4 or 5) and (electrolumines\$5 or lumines\$5 or fluores\$5 or phosphore\$5 or electrophosphores\$5 or (light and (emit\$5 or emiss\$5))).clm.	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13
L8	236	6 or 7	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13
L9	957	(4 or 5) not 8	US-PGPUB; USPAT	OR	ON	2005/07/18 15:13

Interference Text Search

May

=> FILE REG

FILE 'REGISTRY' ENTERED AT 13:48:01 ON 18 JUL 2005
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*EIC 1700
Search*

Property values tagged with IC are from the ZIC/VINITI data file
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MEY

STRUCTURE FILE UPDATES: 17 JUL 2005 HIGHEST RN 855596-49-5
DICTIONARY FILE UPDATES: 17 JUL 2005 HIGHEST RN 855596-49-5

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
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=> FILE HCAPLUS

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FILE COVERS 1907 - 18 Jul 2005 VOL 143 ISS 4
FILE LAST UPDATED: 17 Jul 2005 (20050717/ED)

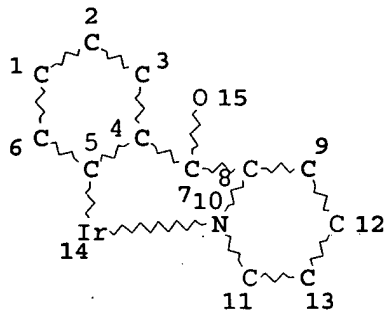
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> D QUE

L5

STR



1 structure found
from query

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 15

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L7

1 SEA FILE=REGISTRY SSS FUL L5

L8

1 SEA FILE=HCAPLUS ABB=ON L7

=> D L8 BIB ABS IND HITSTR

1 CA reference

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:427663 HCAPLUS

DN 137:26174

TI Metal coordination compound, luminescence device and display apparatus

IN Tsuboyama, Akira; Mizutani, Hidemasa; Okada, Shinjiro; Takiguchi, Takao; Miura, Seishi; Noguchi, Koji; Moriyama, Takashi; Igawa, Satoshi; Kamatani, Jun; Furugori, Manabu

PA Canon Kabushiki Kaisha, Japan

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

applicant

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1211257	A2	20020605	EP 2001-128237	20011128
	EP 1211257	A3	20031029		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003081989	A2	20030319	JP 2001-354703	20011120
	US 2003054198	A1	20030320	US 2001-995608	20011129
	CN 1364847	A	20020821	CN 2001-138389	20011130
PRAI	JP 2000-367080	A	20001201		
	JP 2001-198439	A	20010629		
	JP 2001-354703	A	20011120		
OS	MARPAT 137:26174				
AB	The present invention relates to a metal coordination compound, an organic luminescence device using the metal coordination compound and display apparatus using the device. The present invention relates to a metal coordination				

compound having formula $LmML'n$ ($M = Ir, Pt, Ph, Pd$; $L =$ bidentate ligand; $L' =$ bidentate ligand different from L ; $m = 1, 2, 3$; $n = 0, 1, 2$; $n+m = 2$ or 3) appearing after it as a luminescence material so as to allow stable luminescence efficiency. The present invention relates to an organic electroluminescence device having high responsiveness and high efficiency.

IC ICM C07F015-00
ICS H01L051-00

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 29

ST Iridium coordination complex electroluminescence device

IT Electroluminescent devices
(metal coordination compound for luminescence device and display apparatus)

IT Coordination compounds
RL: TEM (Technical or engineered material use); USES (Uses)
(metal coordination compound for luminescence device and display apparatus)

IT 25067-59-8, Polyvinyl carbazole
RL: TEM (Technical or engineered material use); USES (Uses)
(luminescent material; metal coordination compound for luminescence device and display apparatus)

IT 433692-49-0P 433692-50-3P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(metal coordination compound for luminescence device and display apparatus)

IT 433692-48-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(metal coordination compound for luminescence device and display apparatus)

IT 359014-65-6 433692-41-2 433692-42-3 433692-43-4
433692-44-5 433692-45-6 433692-46-7 433692-47-8
RL: TEM (Technical or engineered material use); USES (Uses)
(metal coordination compound for luminescence device and display apparatus)

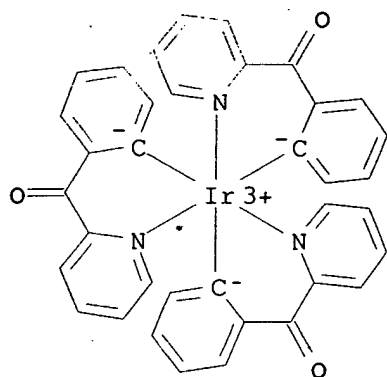
IT 101-82-6, 2-Benzylpyridine 109-04-6, 2-Bromopyridine 123-54-6,
Acetylacetone, reactions 1008-89-5, 2-Phenylpyridine 14996-61-3
15635-87-7, Iridium tris(acetylacetonate) 98437-23-1,
Benzo[b]thiophene-2-boric acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of metal coordination compound for luminescence device and display apparatus)

IT 38210-35-4P 343978-72-3P 343978-79-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of metal coordination compound for luminescence device and display apparatus)

IT 433692-41-2
RL: TEM (Technical or engineered material use); USES (Uses)
(metal coordination compound for luminescence device and display apparatus)

RN 433692-41-2 HCAPLUS

CN Iridium, tris[2-[(2-pyridinyl-κN)carbonyl]phenyl-κC]- (9CI)
(CA INDEX NAME)



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